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ABSTRACT OF THE DISCLOSURE:

This invention relates to *in vitro* cell culture employing a fibrin network in a flexible gas permeable container. Specifically, the invention is directed to a cell culture container comprising a flexible, gas permeable material with fibrin matrix which is conducive to the  
5 culture of anchorage dependent cells, and the container is suitable for use in closed system *in vitro* cell culture. The gas permeability of the container is sufficient to permit cellular respiration.